

# **Career Pathways of Idaho**

**Moving to a  
Focused  
Education**



# Exploring Career Pathways

We wrote this booklet to help you explore using career pathways as a meaningful organizational tool for schools and students. Pathways move schools from unfocused tracks of education to broad avenues that help in the organization of curriculum and courses. They also help students and parents make appropriate choices as to the courses and educational opportunities that will lead to success.

This guide begins with a discussion of career pathways and their effect on schools and students. Next is a list of six suggested career pathways that are based on Idaho's Career Information System (CIS) occupational titles. We explore how your high school might use the pathway concept to organize courses and provide a sample of how a student might use that organization and information to select courses. Finally, the CIS occupational titles are organized into the six career pathways.

Organizing educational programs around pathways gives schools the structure to advise and provide meaningful opportunities for all students. Regardless of Career Pathway(s) chosen or elective courses taken, students must meet State Board of Education requirements.

If we can help you in getting started with career pathways, please contact:

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Students and young adults need to learn about themselves, to have a sense of the world of work, and to set tentative well-informed life and work goals. How can principals and parents help them?

~ Gabrielle Wacker



## CAREER PATHWAYS

Career pathways provide school personnel, parents, and students with a new way to look at preparing students for education, work, and life. The career pathway notion can help schools move from an unfocused general track of courses to broad avenues that help put a framework around education. The intent is not for students to select a specific occupation for the rest of their lives, but to have them direct their energies into a more focused and relevant education.

Schools use career pathways as a framework that includes organizing courses and teachers, linking education and careers, integration of academics and vocational education, linking career guidance with the curriculum, and linking educational levels. Students use career pathways to choose or design their own career major. Career majors include course work that prepares students to (1) enter directly into the workforce; (2) continue education focused on one- to three-year technical degrees; or (3) pursue baccalaureate degrees. Every student follows an education plan.

### Organizing Teachers and Courses

We most often organize schools around disciplines such as humanities, language arts, math, science, and professional-technical education. This departmental organization is important and brings together experts to build a strong subject matter education. Career pathways give schools the opportunity to lay over this organization a cross curricular structure that allows the subject matter experts, the teachers, to work with teacher experts from other disciplines.

As teachers begin working across disciplines, they can begin by looking at the organization of courses. For example, what courses should students take if they want to pursue careers in electronics, humanities, or medicine? Teachers need to look beyond their area of expertise to see how all the courses a student takes fit together into an educational whole.

Career  
pathways  
make it easier  
for teachers to work  
across disciplines.



## **Integrating Academic and Vocational Education**

The career pathway structure helps simplify the integration of academic and professional-technical education. It helps teachers to see more easily the relationship among the courses they teach. For example, students interested in Health Services need academic competencies from anatomy and physiology and professional-technical competencies contained in medical terminology and emergency procedures.

Career pathways help teachers as they work within their own department and across disciplines to design courses that meet the needs of students. For example, physics and automotive teachers can use the physics classroom and automotive laboratory to teach the principles associated with constricting the flow of a fluid. Principles taught by the physics teacher can be observed in the automotive laboratory, such as air constricting in a carburetor when the venturi effect pulls gas into the air flow entering the engine.

Many occupations require work experience before one is considered fully prepared. Occupations such as surgeons, electricians, chefs, and teachers all require work experience. For students, work-based learning activities may be (1) exploratory, such as job shadowing, short term work experiences, and community volunteer programs, or (2) concentrated technical training, such as cooperative education, supervised occupational experiences, school-based enterprises, and individualized occupational training programs. When these activities are incorporated into the curriculum, they complement the classroom by providing related real world experiences that reinforce the academic education.

## **Connecting Guidance with Curriculum**

Schools organized around career pathways have built-in links between the student's motivated strengths and the education offered by the school. Career guidance is necessary so students, with help from their parents, can choose a career pathway and develop an educational plan.

Career pathways help college preparatory students make relevant course selections. A student wishing to become an engineer chooses the Industrial and Engineering career pathway. Here, the student would take courses to meet college admission requirements. In addition, this



In a pathway, students do not wander through school picking courses based on what is easy or what their friends are taking.

pathway encourages the engineering student to take courses in computer-assisted design, advanced mathematics, and other technical courses beyond the basic entrance requirements. Another student interested in health administration may decide to take courses found in two pathways, Health Services and Business and Management. All students will master the basic skills required to be successful, regardless which career pathway they choose.

## Connecting Educational Levels

Career pathways show the need for and importance of more advanced education and training. They not only identify occupations but also the corresponding education and training needed to prepare for these occupations. As students advance in career pathways, they encounter occupations requiring increased knowledge and skill.

The following pages give examples of six career pathways and how schools might choose to organize courses. Each page has suggested courses for a career pathway and an example of an individual student's educational plan.

Identifying a career pathway can help students select courses, activities, and part-time employment.



# Idaho's Career Pathways

## Arts and Communications Career Pathway

The Arts and Communications career pathway includes programs related to the humanities and to the performing, visual, literary, and media arts. These include architecture, creative writing, film and cinema studies, fine arts, graphic design and production, journalism, foreign languages, radio and television broadcasting, advertising, and public relations.



## Business and Management Career Pathway

The Business and Management career pathway includes programs related to the business environment. These may include entrepreneurship, sales, marketing, hospitality and tourism, computer/information systems, finance, accounting, personnel, economics, and management.



## Health Services Career Pathway

The Health Services career pathway includes programs related to the promotion of health as well as the treatment of injuries, conditions, and disease. These may include medicine, dentistry, nursing, therapy and rehabilitation, nutrition, fitness, and hygiene.



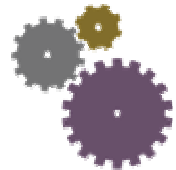
## Human Resources Career Pathway

The Human Resources career pathway includes programs related to economic, political, and social systems. These may include education, law and legal studies, law enforcement, public administration, child and family services, religion, and social services.



## Industrial and Engineering Career Pathway

The Industrial and Engineering career pathway includes programs related to the technologies necessary to design, develop, install, or maintain physical systems. These may include engineering and related technologies, mechanics and repair, manufacturing and design technology, precision production, electronics, and construction.



## Natural Resources Career Pathway

The Natural Resources career pathway includes programs related to the environment and natural resources. These may include agriculture, earth sciences, environmental sciences, fisheries management, forestry, horticulture, and wildlife management.





The Arts and Communications career pathway includes programs related to the humanities and to the performing, visual, literary, and media arts. These include architecture, creative writing, film and cinema studies, fine arts, graphic design and production, journalism, foreign languages, radio and television broadcasting, advertising, and public relations.

## Recommended Courses for the Arts and Communications Pathway

- **Keyboarding/Intro to Computers** -Recommended for all career pathways
- **English** - Creative Writing, Literature, Journalism, Applied English
- **Math** - Applied Math 1 & 2, Algebra 2; or Algebra 1, Geometry, Algebra 2; Advanced Math Course
- **Science** - Anatomy, Biology, Botany, Chemistry, Applied Physics
- **Required Courses** - U.S. History, American Government, Economics, Humanities, Physical Education, Health, Speech, Reading
- **Humanities** - Art, Photography, Drawing & Painting, Graphic Design, Ceramics & Jewelry
- **Foreign Language** - French, German, Spanish, Japanese, Latin
- **Fine Arts** - Theater Arts, Humanities
- **Music** - Band, Choir, Music
- **Business/Marketing** - Computers, Accounting, Business Law, Financial Management
- **Family and Consumer Sciences** - Apparel & Housing, Teen Living, Adult Living, Career & Personal Development, Fashion Merchandising
- **Agriculture** - Landscaping, Horticulture Technology - Computer-Aided Drafting, Communication Technology, Printing and Graphic Arts
- **Work-based Learning** - Community opportunities in the arts or graphic communications

(The above courses are examples of what high schools might offer to students within pathways. This listing does not include all required courses. Students must complete all State Board of Education graduation requirements).

Working within one or more career pathways, students can develop an educational plan  
Here is one example.



Teachers  
organize  
themselves into  
pathways  
instead of just  
discipline  
departments.

### Career Goal -- Graphic Design

#### Year 9:

Career and Personal Development  
English I  
Reading & Speech  
Art I  
Principles of Technology  
Applied Math I

#### Year 10:

Drafting/CAD  
Technical Writing  
Applied Math II  
Art II  
Health/Physical Education  
Social Studies

#### Year 11:

Algebra II  
Biology  
Creative Writing  
Foreign Language  
Graphic Design  
US History

#### Year 12:

Printing/Graphics  
Journalism/Literature  
Foreign Language  
Photography  
American Government  
Media Production

**Plans Beyond High School** -- Graphic Design course of study

The Business and Management career pathway includes programs related to the business environment. These include entrepreneurship, sales, marketing, hospitality and tourism, computer/information systems, finance, accounting, personnel, economics, and management.



## Recommended Courses for the Business and Management Pathway

- **Keyboarding/Intro to Computers** -Recommended for all career pathways
- **English** - Creative Writing, Literature, Journalism, Business Writing, Applied English
- **Math** - Applied Math 1 & 2, Algebra 2; or Algebra 1, Geometry, Algebra 2; Business Math
- **Science** - Anatomy, Biology, Botany, Chemistry, Applied Physics
- **Required Courses** - U.S. History, American Government, Economics, Humanities, Physical Education, Health, Speech, Reading
- **Business** – Computers, Accounting, Business Law, Financial Management
- **Marketing/Management**—Marketing, Business Management
- **Family and Consumer Sciences** – Food Service and Hospitality Management, Career & Personal Development, Personal & Family Finance/Consumer Economics
- **Agriculture** – Agricultural Business and Leadership
- **Work-based Learning** – Cooperative Education and Internships in the areas of Business or Marketing

(The above courses are examples of what high schools might offer to students within pathways. This listing does not include all required courses. Students must complete all State Board of Education graduation requirements).

Working within one or more career pathways, students can develop an educational plan.

Here is one example.

Students may want to select more than one pathway. For example, a student interested in hospital administration may wish to select courses from both the Business Management and Health Services pathways.



### Career Goal -- Accounting

#### Year 9:

Computer Applications  
Algebra I  
Earth Science  
English I  
Reading & Speech  
Communication Technology

#### Year 10:

Business Computer Applications  
Biology or App. Biology/Chemistry  
English II  
Humanities Elective  
Health & Physical Education  
Geometry

#### Year 11:

Computerized Accounting  
Algebra II  
Principles of Technology  
Economics  
English III  
US History

#### Year 12:

Business Technology  
Chemistry or Physics  
Applied English  
American Government  
Cooperative Education

**Plans Beyond High School** – Accounting degree course of study



Teachers and administrators can advise students within a pathway. By having teachers and students select a career pathway, teachers can become knowledgeable about careers and help students and parents to develop an educational plan.





The Health Services career pathway includes programs related to the promotion of health as well as the treatment of injuries, conditions, and disease. These may include medicine, dentistry, nursing, therapy and rehabilitation, nutrition, fitness, and hygiene.

### Recommended Courses for the Health Services Career Pathway

- **Keyboarding/Intro to Computers** -Recommended for all career pathways
- **English** - Creative Writing, Literature, Journalism, Technical Writing
- **Math** - Applied Math 1 & 2, Algebra 2; or Algebra 1, Geometry, Algebra 2; Advanced Math Course
- **Science** – Applied Biology and Chemistry, Principles of Technology, Anatomy and Physiology
- **Required Courses** - U.S. History, American Government, Economics, Humanities, Physical Education, Health, Speech, Reading
- **Social Studies** – Sociology, Psychology
- **Health Occupations**—Health Occupations 1, Health Occupations 2
- **Family and Consumer Sciences** – Nutrition & Foods, Family Health & Wellness, Food Science, Career & Personal Development
- **Physical Education** – First Aid
- **Work-based Learning** – Clinical Experiences in the Health Field

(The above courses are examples of what high schools might offer to students within pathways. This listing does not include all required courses. Students must complete all State Board of Education graduation requirements).

Working within one or more career pathways, students can develop an educational plan.

Here is one example.

#### Career Goal -- Nurse

##### Year 9:

Applied Math I  
Earth Science  
English I  
Reading & Speech  
Humanities Elective  
Economics

##### Year 11:

Health Occupations I  
Algebra II  
Principles of Technology  
English III  
US History  
Sociology

##### Year 10:

Exploratory Careers/Health Occ.  
Applied Math II  
Biology or Applied Biology & Chemistry  
English II  
Reading & Speech  
Health & Physical Education

##### Year 12:

Health Occupations II  
Chemistry  
Applied English  
Humanities Elective  
American Government  
Psychology

**Plans Beyond High School** – Health Occupations course of study



By discovering students' dependable strengths, students and parents are able to make informed choices about education.



Printing course offerings by career pathways begins the process of making connections among courses, and between schools and the world of work.

The Human Resources career pathway includes programs related to economic, political, and social systems. These may include education, law and legal studies, law enforcement, public administration, child and family services, religion, and social services.



## Recommended Courses for the Human Resources Pathway

- **Keyboarding/Intro to Computers** -Recommended for all career pathways
- **English** - Creative Writing, Literature, Journalism, Applied English
- **Math** - Applied Math 1 & 2, Algebra 2; or Algebra 1, Geometry, Algebra 2; Advanced Math Course
- **Science** – Applied Biology and Chemistry, Principles of Technology, Anatomy and Physiology
- **Required Courses** - U.S. History, American Government, Economics, Humanities, Physical Education, Health, Speech, Reading
- **Family and Consumer Sciences** – Child Development, Food Service & Hospitality Management, Occupational Child & Adult Care, Apparel & Housing, Nutrition & Foods, Teen Living, Adult Living, Career & Personal Development, Personal & Family Finance/Consumer Economics, Family Health & Wellness
- **Health Occupations** – Health Occupations 1, Health Occupations 2
- **Humanities** – Art, Photography, Drawing & Painting, Graphic Design, Ceramics & Jewelry
- **Work-based Learning** – Cooperative Education in the Field of Human Services

(The above courses are examples of what high schools might offer to students within pathways. This listing does not include all required courses. Students must complete all State Board of Education graduation requirements).

Working within one or more career pathways, students can develop an educational plan.

Pathways provide direction not tracking. Students should explore options and change pathways whenever they find one better suited to their strengths and weaknesses.



Here is one example.

### Career Goal -- Child Life Specialists

#### Year 9:

Career & Personal Development  
Applied Math I or Algebra I  
Applied Biology & Chemistry  
English 9  
Social Studies  
Elective

#### Year 10:

Nutrition & Foods or Teen Living  
Applied Math 2 or Algebra 2  
Biology  
English 10  
Sociology or Psychology  
Reading & Speech

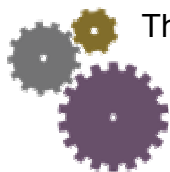
#### Year 11:

Parenting & Child Development  
Algebra II  
Adult Living  
English 11  
US History  
Family Health & Wellness

#### Year 12:

Occupations Child Care  
Advanced Math  
Principles of Technology/Chemistry  
English 12 or Applied English  
Government  
Cooperative Education

**Plans Beyond High School** – Child Development course of study



The Industrial and Engineering career pathway includes programs related to technologies necessary to design, develop, install, or maintain physical systems. These may include engineering and related technologies, mechanics and repair, manufacturing, precision production, electronics, and construction.

## Recommended Courses for the Industrial and Engineering Pathway

- **Keyboarding/Intro to Computers** -Recommended for all career pathways
- **English** – Technical Writing, Journalism
- **Math** - Applied Math 1 & 2, Algebra 2; or Algebra 1, Geometry, Algebra 2; Advanced Math Course
- **Science** – Applied Biology and Chemistry, Approved Agricultural Science Courses, Chemistry, Biology, Physics
- **Required Courses** - U.S. History, American Government, Economics, Humanities, Physical Education, Health, Speech, Reading
- **Family and Consumer Sciences** – Apparel & Housing, Career & Personal Development, Personal & Family Finance/Consumer Economics, Food Science, Teen Living, Adult Living
- **Trade/Technical** – Principles of Technology, Automotive Technology, Building Trades, Electronics Technology, Drafting, Industrial Mechanics,
- **Technological Education** – Communications Technology, Power, Energy & Transportation Technology, Drafting, Industrial Mechanics, Printing & Graphic Arts, Welding, Precision Machining
- **Humanities** – Ceramics & Jewelry
- **Agriculture** – Small Gas Engines, Welding Technology
- **Business and Marketing** – Computers, Accounting, Business Law, Marketing
- **Work-based Learning** – Cooperative Education in Industrial or Engineering Fields, Apprenticeships

(The above courses are examples of what high schools might offer to students within pathways. This listing does not include all required courses. Students must complete all State Board of Education graduation requirements).

Working within one or more career pathways, students can develop an educational plan.

Here is one example.

### Career Goal -- Electronics Technician

#### Year 9:

Introduction to Technology  
Applied Math I  
Earth Science  
English I  
Reading & Speech  
Principles of Technology

#### Year 11:

Chemistry  
Algebra II  
English III  
Intro. to Electronics Tech.  
US History  
Computer-Aided Design

#### Year 10:

Power/Energy & Transportation Tech  
Humanities Elective  
Applied Math II  
Biology or Applied Biology/Chemistry  
English II

#### Year 12:

Electronics II Tech.  
Intro to Electronic Drafting  
Work-based Learning  
Calculus  
Technical Writing  
American Government

**Plans beyond High School** – Electronics course of study

Pathways show students how education is an important part of preparing for life and work.



Integration of academic and vocational education makes possible a career pathway connecting education with the world of work.



The Natural Resources career pathway includes programs related to the environment and natural resources. These may include agriculture, earth sciences, environmental sciences, fisheries management, forestry, horticulture, and wildlife management.



## Recommended Courses for the Natural Resource Pathway

- **Keyboarding/Intro to Computers** -Recommended for all career pathways
- **English** – Technical Writing, Journalism, Applied English
- **Math** - Applied Math 1 & 2, Algebra 2; or Algebra 1, Geometry, Algebra 2; Advanced Math Course
- **Science** – Applied Biology and Chemistry, Principles of Technology, Anatomy and Physiology, Approved Agriculture Courses
- **Required Courses** - U.S. History, American Government, Economics, Humanities, Physical Education, Health, Speech, Reading
- **Agriculture** – Horticulture, Landscaping, Agriculture Business and Leadership, Livestock Production, Natural Resources Conservation
- **Business/Marketing** – Computers, Accounting, Business Law, Financial Management, Marketing
- **Family and Consumer Sciences** – Parenting and Child Development, Food Service & Hospitality Management, Apparel and Housing, Food Science, Nutrition & Foods
- **Trade/Technical** – Drafting, Mechanics, Welding, Construction Technology
- **Work-based Learning** – Supervised Agricultural Experience Program

(The above courses are examples of what high schools might offer to students within pathways. This listing does not include all required courses. Students must complete all State Board of Education graduation requirements).

Working within one or more career pathways, students can develop an educational plan.

Here is one example.

### Career Goal -- Wildlife Specialists

#### Year 9:

Intro to Agriculture Education  
Personal Skill Development  
Applied Math I  
Earth Science  
English I  
Reading & Speech

#### Year 11:

Botany/Horticulture/Plant Science  
Algebra II  
Biology  
English III  
Humanities Elective  
US History

#### Year 10:

Botany/Plant and Soil Science  
Applied Math II  
Biology Applied Biology/Chemistry  
Applied Math II  
Humanities Elective  
Health & Physical Education

#### Year 12:

Zoology/Fish & Wildlife Science  
Principles of Technology  
Applied English or English IV  
Humanities Elective  
American Government  
Economics

**Plans Beyond High School** – Natural Resources curriculum

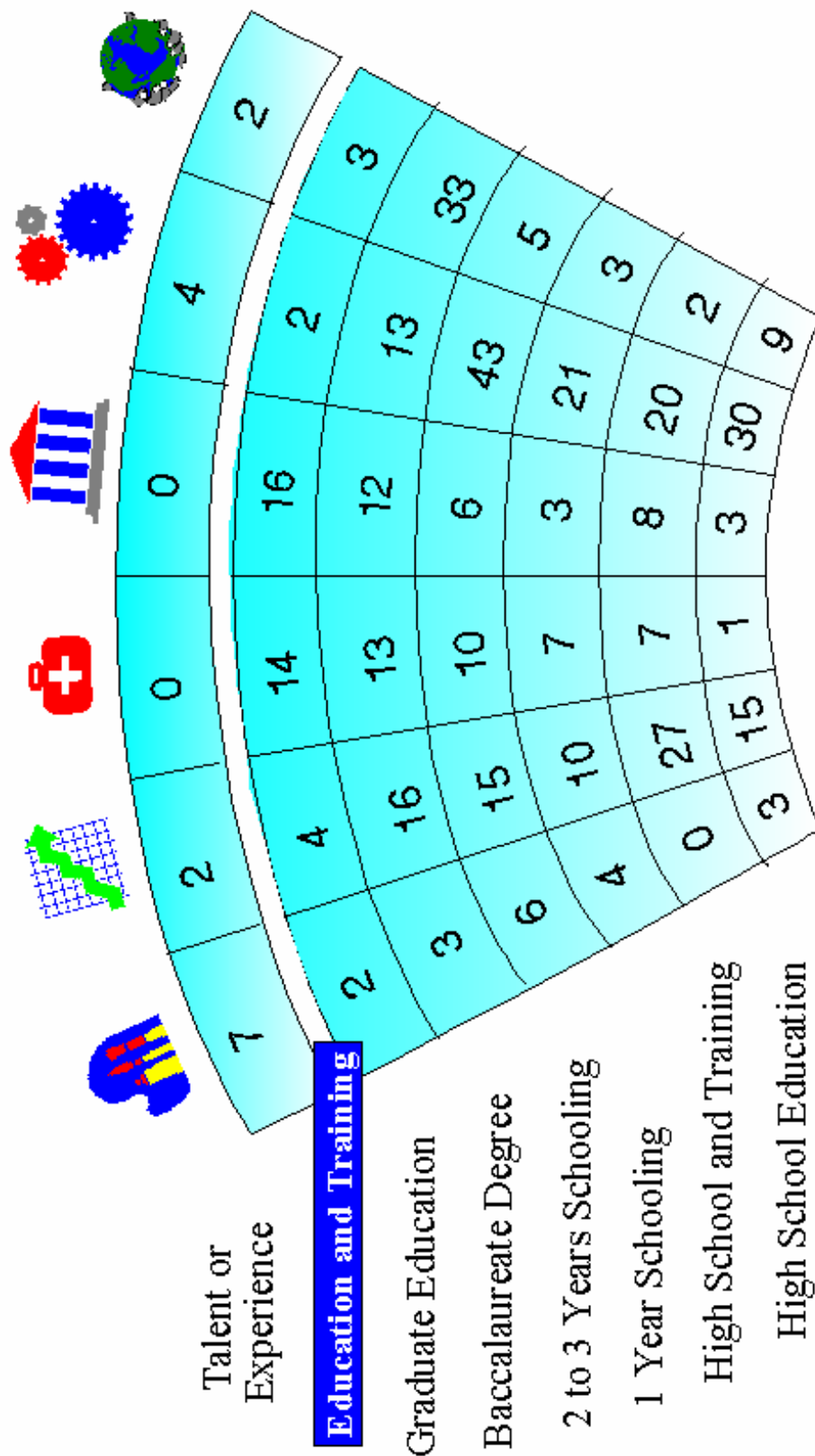


Pathways provide a mechanism to eliminate a low level general track that does not prepare students for further education or the world of work.



Career guidance is a key to helping students make informed choices about career pathways and which courses to select. The Dependable Strengths process will help students discover a pathway.

# NUMBERS OF CIS OCCUPATIONS IN EACH CAREER PATHWAY



# Career Information System

## Occupation Titles

### Arts and Communications

*High school education:*

Floral Designers  
Handcrafters  
Models

*1 year of full-time schooling/2 years apprenticeship:*

Film and Video Makers  
Free-lance Writers  
Photographers  
Radio and Television Broadcasters

*2 to 3 years schooling/3 to 4 years apprenticeship:*

Broadcast Technicians  
Clothes Designers and Patternmakers  
Graphic Artists and Designers  
Interior Designers and Decorators  
Taxidermists  
Writers and Editors

*Four-year degree or equivalent:*

Interpreters and Translators  
Public Relations Workers  
Technical Writers

*University graduate education or equivalent:*

Architects  
Landscape Architects

*High level of talent or experience required:*

Actors  
Dancers  
Fine Artists  
Musicians  
Performing Artists  
Professional Athletes

### Business and Management

*High school education:*

Bartenders  
Buspersons  
Cashiers and Grocery Checkers

Collectors  
Counter Attendants  
Freight Handlers  
Grocery Baggers  
Kitchen Helpers  
Messengers  
Newspaper Carriers  
Packers and Wrappers  
Short Order Cooks  
Stock Clerks  
Telephone Operators  
Waiters and Waitresses

*High school education & short training period:*

Adjustment Clerks  
Automobile Salespeople  
Bank Tellers  
Bookkeepers  
Business Services Salespeople  
Clothing Salespeople  
Counter and Rental Clerks  
Credit and Loan Clerks  
Data Entry Operators  
Dispatchers  
General Office Clerks  
Hotel Desk Clerks  
Insurance Policy and Claims Clerks  
Library Assistants  
Mail Carriers  
Postal Clerks  
Receptionists  
Restaurant Managers  
Retail Salespeople  
Route Salespeople  
Sales Representatives  
Secretaries  
Shipping and Receiving Clerks  
Stenographers  
Ticket Agents  
Travel Agents  
Typists and Word Processors

*1 year of full-time schooling/2 years apprenticeship:*

Accounting and Statistical Clerks  
Auto Parts Counter Workers  
Chefs and Dinner Cooks  
Computer Operators  
Customer Service Representatives  
Fast Food Service Managers  
Insurance Agents

Real Estate Agents  
Small Business Operators  
Tax Preparers

*2 to 3 years schooling/3 to 4 years  
apprenticeship:*

Appraisers  
Buyers and Purchasing Agents  
Computer Support Specialists  
Computer Programmers  
Construction Managers  
Cost Estimators  
Court Clerks  
Hotel and Motel Managers  
Legal Secretaries  
Loan Officers  
Medical Records Technicians  
Medical Secretaries  
Office Managers  
Sales and Service Managers  
Shorthand Reporters

*Four-year degree or equivalent:*

Accountants and Auditors  
Actuaries  
Association and Union Executives  
Business Executives and Managers  
Business and Marketing Teachers \*  
Claims Adjusters and Examiners  
Financial Managers  
Management Analysts and Consultants  
Military Officers  
Personnel Managers  
Property and Real Estate Managers  
Public Administrators  
Recreation Directors  
Securities Salespeople  
Systems Analysts  
Underwriters

*University graduate education or equivalent:*

Education Administrators  
Health Services Managers  
Market Research Analysts  
Mathematicians and Statisticians

*High level of talent or experience required:*

Farmers and Ranchers  
Production Managers

## **Health Services**

*High school education:*

Animal Caretakers

*High school education & short training period:*

Electrocardiograph Technicians  
Electroencephalograph Technicians  
Health Technicians  
Home Health Aides  
Nursing Assistants  
Pharmacy Technicians  
Psychiatric Aides

*1 year of full-time schooling/2 years  
apprenticeship:*

Dental Assistants  
Emergency Medical Technicians  
Licensed Practical Nurses  
Medical Assistants  
Opticians  
Phlebotomists  
Surgical Technologists

*2 to 3 years schooling/3 to 4 years  
apprenticeship:*

Dental Laboratory Technicians  
Denturists  
Funeral Directors and Embalmers  
Massage Technicians  
Medical Laboratory Workers  
Medical Records Technicians  
Radiologic Technologists  
Registered Nurses  
Respiratory Therapists  
Veterinary Technicians

*Four-year degree or equivalent:*

Athletic Trainers  
Biologists  
Chemists  
Dental Hygienists  
Dietitians  
Health Occupations Teachers\*  
Life Scientists  
Occupational Therapists  
Physical Therapists  
Physician Assistants  
Recreational Therapists  
Registered Nurses  
Sanitarians

*University graduate education or equivalent:*

Chiropractors  
Dentists  
Family Physicians  
Health Services Managers  
Internists  
Nurse Anesthetists  
Nurse Practitioners  
Obstetricians and Gynecologists  
Optometrists  
Pediatricians  
Pharmacists  
Physicians  
Podiatrists  
Psychiatrists  
Speech Pathologists & Audiologists  
Surgeons  
Veterinarians

## **Human Resources**

*High school education:*

Recreation Attendants  
Social Service Aides  
Security Guards

*High school education & short training period:*

Child Care Workers  
Corrections Officers  
Firefighters  
Forest Firefighters  
Law Enforcement Officers  
Library Assistants  
Military Enlisted Personnel  
Teacher Assistants

*1 year of full-time schooling/2 years apprenticeship:*

Flight Attendants  
Hair Stylists  
Preschool Teachers

*2 to 3 years schooling/3 to 4 years apprenticeship:*

Detectives and Investigators  
Graphic Information Specialists  
Legal Assistants  
Occupational Trainers  
Recreation Guides  
Recreation Leaders

*Four-year degree or equivalent:*

Athletic Trainers  
Clergy  
Coaches  
Compliance Officers and Inspectors  
Conservation Officers  
Elementary and Secondary Teachers  
Family and Consumer Science Teachers \*  
Librarians  
Parole and Probation Officers  
Public Administrators  
Social Workers  
Special Education Teachers

*University graduate education or equivalent:*

Addiction Counselors  
Anthropologists  
Archivists and Curators  
Counselors  
Economists  
Education Administrators  
Educational Program Specialists  
Geographers  
Lawyers  
Market Research Analysts  
Psychologists  
Recreation Directors  
School Counselors  
Social Scientists  
Sociologists  
University and College Teachers

## **Industrial and Engineering**

*High school education:*

Bus and Taxi Drivers  
Cannery and Frozen Food Workers  
Construction Laborers  
Domestic Service Workers  
Electronics Assemblers  
Food Processing Workers  
Forge Shop Workers  
Fork Lift Operators  
Foundry Workers  
Insulation Installers  
Janitors  
Laundry and Dry Cleaning Workers  
Log Handling Workers  
Lumber and Veneer Off Bearers  
Lumber and Plywood Mill Laborers  
Lumber Production Workers  
Metal Refining Workers  
Petroleum Helpers  
Production Painters and Finishers  
Pulp and Paper Workers



Roofers  
 Room Cleaners  
 Service Station Attendants  
 Sewing Machine Operators  
 Shoe Repairers  
 Textile Machine Operators  
 Upholsterers  
 Vehicle Cleaners  
 Veneer and Plywood Workers  
 Woodworking Machine Operators

*High school education & short training period:*

Aircraft Assemblers  
 Airline Ground Crew Workers  
 Bakers  
 Deck-Hands  
 Floor and Carpet Layers  
 Glaziers  
 Local Truck Drivers  
 Long Haul Truck Drivers  
 Petroleum Processors  
 Photofinishers  
 Printing Production Workers  
 Production Assemblers  
 Quality Control Inspectors  
 Rotary Drillers  
 Rubber and Plastics Fabricators  
 Rubber and Chemical Processors  
 Semiconductors Processing Operators  
 Small Engine Mechanics  
 Surveyor Helpers

*1 year of full-time schooling/2 years apprenticeship:*

Appliance Repairers  
 Auto Body Repairers  
 Building Maintenance Workers  
 Carpenters  
 Cement Masons  
 Coin and Vending Machine Repairers  
 Farm Equipment Mechanics  
 Hazardous Materials Technicians  
 Heavy Equipment Operators  
 Line Installers and Repairers  
 Lumber and Plywood Graders  
 Machine Tool Operators  
 Meat Cutters  
 Mine Workers  
 Painters and Paperhangers  
 Plasterers and Drywall Installers  
 Saw Filers and Tool Sharpeners  
 Science Technicians  
 Telephone Installers and Repairers  
 Water and Wastewater Plant Operators  
 Welders

*2 to 3 years schooling/3 to 4 years apprenticeship:*

Aircraft Technicians  
 Automobile Technicians  
 Boilermakers  
 Bookbinders and Bindery Workers  
 Bricklayers  
 Broadcast Technicians  
 Cabinetmakers  
 Cartographers  
 Computer & Office Machine Repairers  
 Construction Managers  
 Drafters  
 Electricians  
 Electronics Technicians  
 Electronics Testing Technicians  
 Engineering Technicians  
 Gunsmiths  
 Heating and Cooling System Technicians  
 Ironworkers  
 Jewelers  
 Laser Technicians  
 Locksmiths  
 Machinists  
 Metalworking Patternmakers  
 Millwrights  
 Molders  
 Numerical Control Tool Programmers  
 Numerical Control Machine Operators  
 Pilots and Flight Engineers  
 Plumbers and Pipe fitters  
 Precision Instrument Repairers  
 Prepress Workers  
 Printing Press Operators  
 Radio and TV Service Technicians  
 Semiconductor Technicians  
 Sheet Metal Workers  
 Ship fitters  
 Solar Technicians  
 Stationary Engineers  
 Surveyors  
 Tailors and Garment Fitters  
 Tool and Die Makers  
 Truck and Heavy Equipment Mechanics

*Four-year degree or equivalent:*

Aerospace Engineers  
 Agricultural Engineers  
 Air Traffic Controllers  
 Chemical Engineers  
 Civil Engineers  
 Construction & Building Inspectors  
 Electrical and Electronic Engineers  
 Engineers  
 Environmental Engineers  
 Industrial Engineers

Mechanical Engineers  
Petroleum Engineers  
Technology and Trade Teachers\*

*University graduate education or equivalent:*

Mathematicians and Statisticians  
Urban and Regional Planners

*High level of talent or experience required:*

Production Managers  
Railroad Conductors and Brakers  
Railroad Engineers  
Ship Officers and Engineers

## **Natural Resources**

*High school education:*

Animal Caretakers  
Choker Setters  
Commercial Fishers  
Fallers and Buckers  
Farm and Ranch Hands  
Forest Conservation Workers  
Groundskeepers and Gardeners  
Horticultural Workers  
Seasonal Farm Laborers

*High school education & short training period:*

Food Processing Workers  
Pest Control Workers

*1 year of full-time schooling/2 years apprenticeship:*

Farm Equipment Mechanics  
Forestry Technicians  
Science Technicians

*2 to 3 years schooling/3 to 4 years apprenticeship:*

Fish and Wildlife Technicians  
Hazardous Materials Technicians  
Landscapers  
Park Rangers  
Veterinary Technicians

*Four-year degree or equivalent:*

Agricultural Engineers  
Agricultural Science and Technology Teachers\*  
Agricultural Scientists  
Agronomist  
Animal Scientist  
Biochemist  
Biologists  
Botanist  
Chemists  
Conservation Officers  
Earth Scientists  
Ecologists  
Environmental Engineers  
Environmental Occupations  
Food Technologists  
Foresters  
Geographers  
Geographic Information Specialists  
Geologists  
Horticulturist  
Hydrologists  
Life Scientists  
Marine Biologists  
Meteorologists  
Microbiologist  
Oceanographers  
Physical Scientists  
Physicists  
Plant Scientist  
Range Conservationists  
Soil Scientists  
Wildlife Biologists  
Zoologist

*University graduate education or equivalent:*

Astronomers  
Landscape Architects  
Veterinarians

*High level of talent or experience required:*

Farmers and Ranchers  
Water and Wastewater Plant Operators

*\* Specialties of Elementary and Secondary Teachers*

# GET A HEAD START ON YOUR CAREER THROUGH TECH PREP

## What is Tech Prep?

Tech Prep is designed to give all students, including the traditional college bound student, a focus on their future. It links high school with college and careers, and professional-technical with academic education.

Tech Prep's key components help raise expectations and standards for all students:

### **A Seamless System:**

High school and college instructors work cooperatively to design Tech Prep program content. The result is a seamless system in which Tech Prep students can move without having to repeat courses.

### **Career Guidance:**

Guidance to help students discover and apply their strengths and abilities toward career and educational goals is key to Tech Prep's success.

### **Integrated Teaching:**

Tech Prep programs stress integrated teaching. Teachers who learn to effectively integrate instructional activities see students success and motivation rise.

### **Career Pathways:**

Tech Prep programs function well in schools where the curriculum is structured around career clusters. Career Pathways offer that structure and provide parents and students an easy way to plan an educational path through and beyond high school.



## **CAREER PLAN CHECKLIST**

Planning is best accomplished with the help of parents, teachers, guidance counselors and other adults who know and care for the student. Students and parents should study course offerings carefully and use them as guides for high school registration and postsecondary planning. Keep the basic requirements for graduation and postsecondary admissions in your plan and use the following checklist. Guidance counselors and the Career Education Coordinator are available to students to assist in the career planning process.

### **Ninth Grade**

- Along with your student, plan a sequence of courses related to educational and career interests.
- Review your student's educational skills with appropriate faculty.
- Continually discuss career plans with your student.
- Review graduation and postsecondary college/university entrance requirements with your student.
- Review your student's tenth-grade educational plan and provide encouragement to succeed.
- Review your student's Test of Achievement and Proficiency (TAP).

### **Tenth Grade**

- Check the date for PLAN (Pre-ACT). It is good preparation for the ACT and provides interest/career information.
- Check your place of employment for available employer-related scholarship information to find out about requirements.
- Review your student's eleventh-grade educational plan and schedule.
- Continue to encourage excellence in both course work and co-curricular activities.

### **Eleventh Grade**

- Check to make sure your student is completing the district and high school graduation requirements.
- (11th & 12th grades) Check for college entrance test (PSAT, ACT, SAT), CPT at professional-technical school for professional-technical program - dates and registration deadlines.
- Check on specific entrance requirements (such as course and test scores) for schools which your student may wish to attend.
- (11th & 12th grades) Check on scholarship and financial aid opportunities.
- (11th & 12th grades) Attend college and financial aid presentations.
- (11th & 12th grades) Continue to encourage your student.
- Encourage campus visitations and participation in any kind of post secondary orientation activity.
- Review graduation requirements.
- Check your student's twelfth-grade educational plan and schedule.
- For student athletes, review National Collegiate Athletic Association (NCAA) eligibility requirements.

## **Twelfth Grade**

- Decide whether your student needs to take or re-take the ACT or SAT.
- Have your student check due dates for scholarship applications.
- Attend career/college fair with your student.
- Pick up a Financial Aid Form (FAFSA) and assist your student in completing it.
- Make sure you know each college/university/technical school's application deadline for both admission, financial aid, and scholarships.
- Remind your student about what is included in the job search, especially first impressions, resumes, and interviewing skills.

## Education-to-Career

K-6		7-8 Explore - Expand		Student Learning Plan (SLP)	9-10 Plan – Set Goals		11-12 Decide-Apply		Post High School		Success in the Workplace
Integrated Academics  Career Awareness, Interpersonal Skills and Problem Solving		Integrated Academics  Career Exploration, Lifestyle Choices, Career-Training Opportunities, and Workplace Skills			Integrated Academics  Self Awareness, Assessment of Self and Workplace, Job Search Skills, Job Shadowing, and Professional-Technical Education  Workplace Skills		Integrated Academics  Professional-Technical Education and Work Based Learning  Workplace Skills		Options:  College of Technology, Military, Apprenticeship, University, or Work Place		
Fantasy - Awareness – Exploration					Exploration - Preparation - Specialization						
Parental Involvement											

Idaho's Career Development Program based on the  
Idaho Comprehensive Guidance and Counseling Program Model

Name \_\_\_\_\_

## Sample High School 4 Year Educational Plan

Class of \_\_\_\_\_

### 9th Grade

Semester 1	Semester 2
1. English 9	1. English 9
2. Math -	2. Math -
3. Earth Science	3. Earth Science
4. Reading	4. World Geography
5. Keyboard	5. P.E. *
6.	6.
7.	7.
8.	8.

End of Year GPA \_\_\_\_\_

Career Pathway I'm Considering: \_\_\_\_\_

\*P.E. classes can be taken at whatever grade level works best for you.

### 10th Grade

Semester 1	Semester 2
1. English 10	1. English 10
2. World History	2. World History
3. Biology	3. Biology
4. Math -	4. Math -
5. P.E. *	5. Health
6.	6.
7.	7.
8.	8.

End of Year GPA \_\_\_\_\_

Career Pathway I'm Considering: \_\_\_\_\_

### 11th Grade

Semester 1	Semester 2
1. English 11	1. English 11
2. U.S. History	2. U.S. History
3. Communications	3. Career Pathways
4. Math (recommended)	4. Math (recommended)
5. Science (recommended)	5. Science (recommended)
6.	6.
7.	7.
8.	8.

End of Year GPA \_\_\_\_\_

Career Major I'm Considering: \_\_\_\_\_

### 12th Grade

Semester 1	Semester 2
1. English 12	1. English 12
2. U.S. Government	2. U.S. Government
3. Consumer Economics	3. P.E. *
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.

End of Year GPA \_\_\_\_\_

Career Major I'm Considering: \_\_\_\_\_

## EXTRACURRICULAR ACTIVITIES

**Activity/Office Held/Responsibility**


**Activity/Office Held/Responsibility**


## TRANSITION PLAN

☐ Full-Time Employment

☐ Professional-Technical School

☐ Apprenticeship

☐ Two-year College

☐ Military

☐ Four-year College

☐ Undecided

☐ Other

Post-Secondary Schools I'm Considering \_\_\_\_\_

## PARENT APPROVAL

Date	Parent/Guardian Signature
Date	Revised
Date	Revised
Date	Revised
Date	Revised

Date	Student Signature
Date	Revised
Date	Revised
Date	Revised
Date	Revised



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